RAW SEQUENCE LISTING
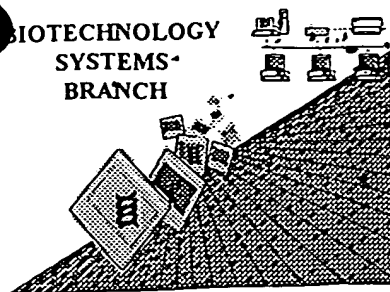# ERROR REPORT

File Copy

#21

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ___09/518763___

Source: ___AU 1636___

Date Processed by STIC: ___10/01/01___

RECEIVED

NOV 1 3 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: 09/518763

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO

1 ____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length

Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)

Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ✓ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown o is Artificial Sequence

11 ____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represen any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

1636

```
RAW SEQUENCE LISTING                    DATE: 10/01/2001
PATENT APPLICATION:  US/09/518,763      TIME: 09:47:31

          Input Set : A:\PTO.txt
          Output Set: N:\CRF3\10012001\I518763.raw
```

```
 3 <110> APPLICANT: Boyce Thompson Institute for Plant Research
 4        Blissard, Gary
 5        Robert, Granados
 6        Guangyun, Lin
 8 <120> TITLE OF INVENTION: STABLE CELL LINES RESISTANT TO APOPTOSIS AND NUTRIENT STRESS
AND METHODS
 9        OF MAKING SAME
11 <130> FILE REFERENCE: BTI-44
13 <140> CURRENT APPLICATION NUMBER: US 09/518,763
14 <141> CURRENT FILING DATE: 2000-03-03
16 <160> NUMBER OF SEQ ID NOS: 11
18 <170> SOFTWARE: PatentIn version 3.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 900
22 <212> TYPE: DNA
23 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
25 <400> SEQUENCE: 1
26 atgtgtgtaa tttttccggt agaaatcgac gtgtcccaga cgattattcg agattgtcag      60
28 gtggacaaac aaaccagaga gttggtgtac attaacaaga ttatgaacac gcaattgaca     120
30 aaacccgttc tcatgatgtt taacatttcg ggtcctatac gaagcgttac gcgcaagaac     180
32 aacaatttgc gcgacagaat aaaatcaaaa gtcgatgaac aatttgatca actagaacgc     240
34 gattacagcg atcaaatgga tggattccac gatagcatca agtattttaa agatgaacac     300
36 tattcggtaa gttgccaaaa tggcagcgtg ttgaaaagca agtttgctaa aattttaaag     360
38 agtcatgatt ataccgataa aaagtctatt gaagcttacg agaaatactg tttgcccaaa     420
40 ttggtcgacg aacgcaacga ctactacgtg gcggtatgcg tgttgaagcc gggatttgag     480
42 aacggcagca accaagtgct atctttcgag tacaacccga ttggtaacaa agttattgtg     540
44 ccgtttgctc acgaaattaa cgacacggga ctttacgagt acgacgtcgt agcttacgtg     600
46 gacagtgtgc agtttgatgg cgaacaattt gaagagtttg tgcagagttt aatattgccg     660
48 tcgtcgttca aaaattcgga aaaggtttta tattacaacg aagcgtcgaa aaacaaaagc     720
50 atgatctaca aggctttaga gtttactaca gaatcgagct ggggcaaatc cgaaaagtat     780
52 aattggaaaa ttttttgtaa cggttttatt tatgataaaa aatcaaaagt gttgtatgtt     840
54 aaattgcaca atgtaactag tgcactcaac aaaaatgtaa tattaaacac aattaaataa     900
57 <210> SEQ ID NO: 2
58 <211> LENGTH: 299
59 <212> TYPE: PRT
60 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
62 <400> SEQUENCE: 2
64 Met Cys Val Ile Phe Pro Val Glu Ile Asp Val Ser Gln Thr Ile Ile
65 1               5                  10                  15
67 Arg Asp Cys Gln Val Asp Lys Gln Thr Arg Glu Leu Val Tyr Ile Asn
68             20                  25                  30
70 Lys Ile Met Asn Thr Gln Leu Thr Lys Pro Val Leu Met Met Phe Asn
71         35                  40                  45
73 Ile Ser Gly Pro Ile Arg Ser Val Thr Arg Lys Asn Asn Asn Leu Arg
74     50                  55                  60
76 Asp Arg Ile Lys Ser Lys Val Asp Glu Gln Phe Asp Gln Leu Glu Arg
77 65                  70                  75                  80
79 Asp Tyr Ser Asp Gln Met Asp Gly Phe His Asp Ser Ile Lys Tyr Phe
```

Does Not Comply
Corrected Diskette Needed
See page 2
and Error Summary Sheet
Item 10

RAW SEQUENCE LISTING   DATE: 10/01/2001
PATENT APPLICATION: US/09/518,763   TIME: 09:47:31

Input Set : A:\PTO.txt
Output Set: N:\CRF3\10012001\I518763.raw

```
80                   85                   90                   95
82 Lys Asp Glu His Tyr Ser Val Ser Cys Gln Asn Gly Ser Val Leu Lys
83               100                   105                   110
85 Ser Lys Phe Ala Lys Ile Leu Lys Ser His Asp Tyr Thr Asp Lys Lys
86          115                   120                   125
88 Ser Ile Glu Ala Tyr Glu Lys Tyr Cys Leu Pro Lys Leu Val Asp Glu
89     130                   135                   140
91 Arg Asn Asp Tyr Tyr Val Ala Val Cys Val Leu Lys Pro Gly Phe Glu
92 145                   150                   155                   160
94 Asn Gly Ser Asn Gln Val Leu Ser Phe Glu Tyr Asn Pro Ile Gly Asn
95               165                   170                   175
97 Lys Val Ile Val Pro Phe Ala His Glu Ile Asn Asp Thr Gly Leu Tyr
98          180                   185                   190
100 Glu Tyr Asp Val Val Ala Tyr Val Asp Ser Val Gln Phe Asp Gly Glu
101          195                   200                   205
103 Gln Phe Glu Glu Phe Val Gln Ser Leu Ile Leu Pro Ser Ser Phe Lys
104     210                   215                   220
106 Asn Ser Glu Lys Val Leu Tyr Tyr Asn Glu Ala Ser Lys Asn Lys Ser
107 225                   230          235                   240
109 Met Ile Tyr Lys Ala Leu Glu Phe Thr Thr Glu Ser Ser Trp Gly Lys
110               245                   250                   255
112 Ser Glu Lys Tyr Asn Trp Lys Ile Phe Cys Asn Gly Phe Ile Tyr Asp
113          260                   265                   270
115 Lys Lys Ser Lys Val Leu Tyr Val Lys Leu His Asn Val Thr Ser Ala
116          275              280                   285
118 Leu Asn Lys Asn Val Ile Leu Asn Thr Ile Lys
119     290                   295
```

```
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 38
123 <212> TYPE: DNA
124 <213> ORGANISM: synthetic construct
126 <400> SEQUENCE: 3
127 ctagaagttg gaaagatgcc agcggctggt cgtaatag     38
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 38
132 <212> TYPE: DNA
133 <213> ORGANISM: synthetic construct
135 <400> SEQUENCE: 4
136 ctagctatta cgaccagccg ctggcatctt tccaactt     38
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 30
141 <212> TYPE: DNA
142 <213> ORGANISM: synthetic construct
144 <400> SEQUENCE: 5
145 cagaattcat gtgtgtaatt tttccggtag     30
148 <210> SEQ ID NO: 6
149 <211> LENGTH: 33
150 <212> TYPE: DNA
151 <213> ORGANISM: synthetic construct
```

*Errored: Invalid 213 response.
Appropriate responses are "Artificial Sequence",
"Unknown" or the name of some
specific species.*

See Error Summary Sheet.

*FYI: A 213 response of "Artificial
Sequence requires an explanation
for example "synthetic construct"
in field 223.*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/518,763

DATE: 10/01/2001
TIME: 09:47:31

Input Set : A:\PTO.txt
Output Set: N:\CRF3\10012001\I518763.raw

```
153 <400> SEQUENCE: 6
154 ttttgctcta gatttaattg tgtttaatat tac                           33
157 <210> SEQ ID NO: 7
158 <211> LENGTH: 35
159 <212> TYPE: DNA
160 <213> ORGANISM: synthetic construct
162 <400> SEQUENCE: 7
163 aatgctctag attatttaat tgtgtttaat attac                         35
166 <210> SEQ ID NO: 8
167 <211> LENGTH: 15
168 <212> TYPE: DNA
169 <213> ORGANISM: synthetic construct
171 <400> SEQUENCE: 8
172 ttaaacacaa ttaaa                                               15
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 5
177 <212> TYPE: PRT
178 <213> ORGANISM: synthetic construct
180 <400> SEQUENCE: 9
182 Leu Asn Thr Ile Lys
183 1               5
185 <210> SEQ ID NO: 10
186 <211> LENGTH: 54
187 <212> TYPE: DNA
188 <213> ORGANISM: synthetic construct
190 <400> SEQUENCE: 10
191 ttaaacacaa ttaaatctag aagttggaaa gatgccagcg gctggtcgta atag     54
194 <210> SEQ ID NO: 11
195 <211> LENGTH: 16
196 <212> TYPE: PRT
197 <213> ORGANISM: synthetic construct
199 <400> SEQUENCE: 11
201 Leu Asn Thr Ile Lys Ser Arg Ser Trp Lys Asp Ala Ser Gly Trp Ser
202 1               5                   10                  15
```

VERIFICATION SUMMARY   DATE: 10/01/2001
PATENT APPLICATION: US/09/518,763   TIME: 09:47:32

Input Set : A:\PTO.txt
Output Set: N:\CRF3\10012001\I518763.raw